Nose Airway Device for Detecting Airborne Contaminants
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ABSTRACT

An airborne contaminant indicating device adapted for attachment to a person's nose for indicating the presence of a contaminant entrained in an air stream passing through the nose. In a particularly preferred embodiment, the device is a clip with a proximal "UU" shaped dilating portion adapted to be inserted within the nostrils; the "U's" being connected to one another medially by an elastically deformable extension portion, the extension portion being two straight parallel strips, one end of the strips being integral with the dilating portion and the opposing end of the strip integral with an arcuate septum attachment portion. The septum attachment portion spaces the distal ends of the strips of the extension portion so that the strips straddle and gently squeeze the nasal septum. The device has a contaminant-interactive coated surface in contact with a portion of the air passing through the nose. The design of the embodiment provides maximum air flow through the nostrils. The proximal, dilating portion of the device consists of two "U" shaped strips, each strip being affixed to a proximal open end of the "U" shaped extension portion and at right angles to the plane of the extension portion. The dilating portion presents a smooth outer tissue-contacting surface which urges against the inner surface of the walls of the nostrils forcing them outwardly. A portion of the surface in opposition to the tissue-contacting surface includes a contaminant interactive coating that is adapted to provide an indication of one or more contaminants in the air.